

What is Claimed is:

1. A microwave oven comprising:

a base plate;

5 a front plate and a rear plate vertically mounted at front and rear edges of the base plate;

an inner case between the front plate and the rear plate having a curved rear part to form a cooking chamber therein;

an outfit chamber at one side of the inner case having various components such as a magnetron and fan mounted therein; and

10 a convection part mounted in rear of the inner case for providing heat to the cooling chamber.

2. The microwave oven as claimed in claim 1, wherein the rear part of the inner case is spaced from the rear plate.

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3. The microwave oven as claimed in claim 2, wherein the rear plate has a part opposite to the rear part of the inner case pressed backward.

4. The microwave oven as claimed in claim 1, wherein the inner case has a  
20 width that becomes the smaller as it goes the farther from a front plate side to a rear plate side.

5. The microwave oven as claimed in claim 1, wherein the rear plate has a plurality of second air inlet holes for receiving external air as the fan is operated.

6. The microwave oven as claimed in claim 1, wherein the inner case has first air inlet holes for guiding heat from the convection part to the cooking chamber.

7. The microwave oven as claimed in claim 1, wherein the convection part  
5 includes;

a heater for generating heat,

a convention fan for blowing air heated by the heater to the cooking chamber,

and

a convection motor for driving the convection fan.

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8. The microwave oven as claimed in claim 7, wherein the inner case has first inlet holes for guiding high temperature air blown by the convection fan to the cooking chamber.

15 9. The microwave oven as claimed in claim 7, wherein the convection part further includes an anti-fan between the convection motor and the convection fan for cooling the convection motor.

10 20 10. The microwave oven as claimed in claim 7, wherein the convection part further includes a convection case mounted on the inner case and surrounding the convection fan and heater.

25 11. The microwave oven as claimed in claim 10, wherein the convection part further includes an anti-fan between the convection motor and the convection case for cooling the convection motor.

12. The microwave oven as claimed in claim 10, wherein the inner case having the convection case mounted thereon has first inlet holes for guiding high temperature air the convection fan blows to the cooking chamber.

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13. The microwave oven as claimed in claim 1, further comprising a first shielding plate between the convection part and the outfit chamber for cutting off heat from the convection part.

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14. The microwave oven as claimed in claim 13, wherein the convection part includes;

a heater for generating heat,

a convention fan for blowing air heated by the heater to the cooking chamber,

and

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a convection motor for driving the convection fan.

15. The microwave oven as claimed in claim 14, wherein the convection part further includes a convection case mounted on the inner case and surrounding the convection fan and heater.

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16. The microwave oven as claimed in claim 14, wherein the first shielding plate has a second outlet hole for cooling the convection motor.

17. The microwave oven as claimed in claim 14, wherein the inner case has first inlet holes for guiding high temperature air blown by the convection fan to the

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cooking chamber.

18. The microwave oven as claimed in claim 14, further comprising a second  
shielding plate between the convection fan and the convection motor for preventing the  
5 heat from directly transmitting to the convection motor.

19. The microwave oven as claimed in claim 18, wherein the convection part  
further includes a convection case surrounding the convection fan and heater, and  
mounted on the inner case.

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20. The microwave oven as claimed in claim 19, wherein the inner case has  
first inlet holes at a part the convection case mounted thereon for guiding high  
temperature air blown by the convection fan to the cooking chamber.